

Scotts Bluff National Monument, Accuracy Assessment Metadata

Identification_Information:

Citation:

Citation_Information:

Originator: U.S. Geological Survey

Originator: Department of the Interior

Publication_Date: 199810

Title: Scotts Bluff National Monument Accuracy Assessment

Geospatial_Data_Presentation_Form: database and report

Series_Information:

Series_Name: USGS-NPS Vegetation Mapping Program

Issue_Identification: Scotts Bluff National Monument

Publication_Information:

Publication_Place: Denver, CO

Publisher:

USGS Biological Resources Division, Center for

Biological Informatics

Online_Linkage: http://biology.usgs.gov/npsveg/scbl/index.html#accuracy_assessment_info

Description:

Abstract:

The accuracy assessment field work was performed in August, 1997 to verify the accuracy of the vegetation communities spatial data developed by the USGS-NPS Vegetation Mapping Program for Scotts Bluff National Monument. The data points were randomly distributed stratified according to vegetation association over the project area according to protocols developed by the Program. Points were located by GPS navigation and the community information was collected at the point, without knowledge of the attributes of the vegetation spatial data.

Purpose:

To verify the accuracy of the mapped vegetation communities at Scotts Bluff National Monument

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 199810

Currentness_Reference: Source of data collection

Status:

Progress: Complete

Maintenance_and_Update_Frequency: None planned

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -103.74663

East_Bounding_Coordinate: -103.68121

North_Bounding_Coordinate: 41.86887

South_Bounding_Coordinate: 41.80845

Description_of_Geographic_Extent: Scotts Bluff National Monument, Nebraska and environs.

Keywords:

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: accuracy assessment

Theme_Keyword: accuracy

Theme_Keyword: assessment

Theme_Keyword: vegetation

Theme_Keyword: vegetation mapping

Theme_Keyword: vegetation communities

Theme_Keyword: vegetation classification

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Place:

Place_Keyword_Thesaurus: None
Place_Keyword: Nebraska
Place_Keyword: NE
Place_Keyword: Scottsbluff
Place_Keyword: Gering
Place_Keyword: Mitchell
Place_Keyword: Mitchell Bottom
Place_Keyword: North Platte River
Place_Keyword: Roubadeau
Place_Keyword: Scottsbluff County
Place_Keyword: Scotts Bluff National Monument

Taxonomy:

Keywords/Taxon:

Taxonomic_Keyword_Thesaurus: None
Taxonomic_Keywords: vegetation classification
Taxonomic_Keywords: Standardized National Vegetation Classification System
Taxonomic_Keywords: alliance
Taxonomic_Keywords: community association

Taxonomic_System:

Classification_System/Authority:

Classification_System_Citation:

Citation_Information:

Originator: U.S. Government; Federal Geographic Data Committee
Publication_Date: 19971022
Title: National Vegetation Classification Standard (NVCS)
Geospatial_Data_Presentation_Form: document
Publication_Information:
Publication_Place: Washington D.C.
Publisher: Federal Geographic Data Committee
Online_Linkage: http://www.fgdc.gov/standards/status/sub2_1.html

Taxonomic_Procedures:

Vegetation associations were identified; no specimens nor vouchers were collected as a part of this process.

Taxonomic_Completeness:

Conforms with FGDC standardized vegetation classification system.

Taxonomic_Classification:

Taxon_Rank_Name: Kingdom
Taxon_Rank_Value: Plantae
Applicable_Common_Name: plants

Access_Constraints: None

Use_Constraints:

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Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: USGS-NPS Vegetation Mapping Program Coordinator
Contact_Organization: USGS/BRD, Center for Biological Informatics
Contact_Position: Geospatial Technology Specialist

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USGS-NPS Vegetation Mapping Program

Scotts Bluff National Monument

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Contact_Facsimile_Telephone: 303-202-4219 (org)
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Browse_Graphic:

Browse_Graphic_File_Name: <http://biology.usgs.gov/npsveg/scbl/images/scblaa.gif>
Browse_Graphic_File_Description:
45 kbyte file showing vegetation associations and location of accuracy assessment points
Browse_Graphic_File_Type: GIF
Native_Data_Set_Environment: text file

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

The attributes for the accuracy assessment were recorded in the field in August, 1997. Vegetation associations were identified based on the field key and plant identification. If additional communities were found within a 50 meter radius of the plot center, they were recorded as well. During the analysis, it was concluded that some attributes were in error and changed to match the mapped attributes. This was done by examination of the aerial photographs under stereoscopic view. The attributes were in error due to 1) spatial error in the GPS derived coordinates (4-8 meters), 2) change of vegetation community due to temporal changes, or differences between observation team identifications.

Logical_Consistency_Report:

All attributes are codes that correspond to vegetation communities and have been checked for typographical and logical errors.

Completeness_Report:

All points were collected and analyzed. Several points fell outside the mapping area, so were discarded.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

The points were located using a military-style GPS receiver (PLGR), which has a published accuracy of 4-8 meters.

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report: Not applicable

Lineage:

Methodology:

Methodology_Type: Field

Methodology_Identifier:

Methodology_Keyword_Thesaurus: None

Methodology_Keyword: Accuracy Assessment

Methodology_Description:

Data points were located by use of a PLGR GPS receiver. Vegetation communities were identified on the basis of a dichotomous field key and plant Species: present

Methodology:

Methodology_Type: Lab

Methodology_Identifier:

Methodology_Keyword_Thesaurus: None

Methodology_Keyword: Accuracy Assessment

Methodology_Description:

Accuracy assessment points were compiled into an ARCINFO point coverage and intersected with the vegetation community coverage. The resulting INFO file was exported into a text file, imported into

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a spreadsheet, and the attributes from the accuracy assessment and the spatial data were compared. If the attributes did not compare, an analysis of the mismatch was made and either the AA attribute or the map attribute was changed based on identification of the community on the aerial photo.

Source_Information:

Source_Citation:

Citation_Information:

Originator: U.S. National Biological Survey

Originator: U.S. National Park Service

Originator: Department of the Interior

Publication_Date: 199411

Title: Accuracy Assessment Procedures, NBS/NPS Vegetation Mapping Program

Geospatial_Data_Presentation_Form: procedures document

Publication_Information:

Publication_Place: Denver, CO

Publisher:

USGS, Biological Resources Division, Center for Biological Informatics

Other_Citation_Details:

Prepared by: Environmental Systems Research Institute; Redlands, CA and National Center for Geographic

Information and Analysis, University of California, Santa Barbara, CA and The Nature Conservancy, Arlington, VA

Under contract from U.S. Department of the Interior National Biological Survey and National Park Service.

Type_of_Source_Media: electronic document

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 199411

Ending_Date: Present

Source_Currentness_Reference: publication date

Source_Citation_Abbreviation: Accuracy Assessment Procedures Document

Source_Contribution: This document established the procedures and protocols for the accuracy assessment at Scotts Bluff National Monument.

Source_Information:

Source_Citation:

Citation_Information:

Originator: U.S. Geological Survey

Originator: Department of the Interior

Publication_Date: 199809

Title:

Scotts Bluff National Monument Spatial Vegetation Data: Cover type / Association level of the

National Vegetation Classification System

Geospatial_Data_Presentation_Form: report

Series_Information:

Series_Name: USGS-NPS Vegetation Mapping Program

Issue_Identification: Scotts Bluff National Monument

Publication_Information:

Publication_Place: Denver, CO

Publisher:

USGS, Biological Resources Division, Center for Biological Informatics

Other_Citation_Details:

Created in large part by Environmental Systems Research Institute, Inc. Redlands, CA under

contract from USGS/BRD/CBI.

Type_of_Source_Media: Disc

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 19950725

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Source_Currentness_Reference: ground condition

Source_Citation_Abbreviation: Spatial data of vegetation communities for Scotts Bluff National Monument.

Source_Contribution:

The vegetation spatial data were tested for accuracy with the AA data.

Process_Step:

Process_Description:

The accuracy assessment field work was performed in August, 1997 to verify the accuracy of the vegetation communities spatial data developed by the USGS-NPS Vegetation Mapping Program for Scotts Bluff National Monument. The data points were randomly distributed stratified according to vegetation association over the project area according to protocols developed by the Program.

Points were located by GPS navigation and the community information was collected at the point, without knowledge of the attributes of the vegetation spatial data.

Source_Used_Citation_Abbreviation: Spatial data of vegetation communities for Scotts Bluff National Monument.

Source_Used_Citation_Abbreviation: Accuracy Assessment Procedure Document

Process_Date: 199810

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Point

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Planar:

Grid_Coordinate_System:

Grid_Coordinate_System_Name: Universal Transverse Mercator

Universal_Transverse_Mercator:

UTM_Zone_Number: 13

Transverse_Mercator:

Scale_Factor_at_Central_Meridian: 0.9996

Longitude_of_Central_Meridian: -105

Latitude_of_Projection_Origin: 0

False_Easting: 500000

False_Northing: 0

Planar_Coordinate_Information:

Planar_Coordinate_Encoding_Method: coordinate pair

Coordinate_Representation:

Abscissa_Resolution: 1

Ordinate_Resolution: 1

Planar_Distance_Units: meters

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1983

Ellipsoid_Name: Geodetic Reference System 80

Semi-major_Axis: 6378137

Denominator_of_Flattening_Ratio: 297.257

Entity_and_Attribute_Information:

Overview_Description:

Entity_and_Attribute_Overview:

The National Vegetation Classification Standard is organized hierarchically to support conservation and resource stewardship applications across multiple scales. The upper levels of the hierarchy are based on the physical form or structure of the vegetation (physiognomy) and have been refined from the international standards developed by the United Nations Educational, Scientific, and Cultural Organization (UNESCO). The two most detailed levels of the hierarchy are based on the species composition of existing vegetation (floristics) and reflect the phyto-sociological standards that were originally developed by European ecologists. The vegetation classification is continually advanced through the collection and analysis of new field data and will be greatly strengthened during the course of the USGS-NPS mapping efforts. Data file attributes include

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species, alliance, community element, and land cover.

0=no data

1=Juniperus scopularum/Orysopsis micrantha Woodland

2=Pinus ponderosa/Juniperus scopularum Woodland

3=Populus deltoides - (Salix amygdaloides)/Salix exigua Fldpln

4=Salix exigua Shrubland

5=Andropogon halii --Calamovilfa longifolia Herbaceous Veg.

6=Cercocarpus montanus/Bouteloua curtipendula Shrubland

7=Symphoricarpus occidentalis Shrubland

8=Typha spp. -Equisetum hyemale/Carex spp. Seep Herbaceous

9=Kochia scoparia/Bromus spp. Early Seral Community

10=Mixed Grass Prairie (reseeded)

11=Pascopyrum smithii Herbaceous Vegetation

12=Stipa comata -Bouteloua gracilis/Carex filifoliaHerb. Veg.

13=Riverine Sand Flats/Bars

14=Rock Outcrop/Prairie Mosaic

15=Siltstone - Clay Butte Sparse Vegetation

16=Open Bluff/Cliff & Eroding Great Plains Badlands Sparse Veg.

17=Andropogon gerardii -Calamagrostis canadensis - Helianthus g.

18=Cliff/Rock Outcrop/Prairie Mosaic

19=Eroding Great Plains Slopes Sparse Vegetation

20=Water

21=Unvegetated landuse / disturbance

22=Pinus ponderosa/Juniperus scopularum Woodland

Entity_and_Attribute_Detail_Citation:

Grossman, D. Et al. 1994. National Park Service/ National Biological Service Vegetation Mapping Project, Standardized National Vegetation Classification System 209 pp.

Distribution_Information:

Distributor:

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Contact_Person: USGS-NPS Vegetation Mapping Program Coordinator

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Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Format_Name: HTML

Digital_Transfer_Option:

Online_Option:

Computer_Contact_Information:

Network_Address:

Network_Resource_Name: http://biology.usgs.gov/npsveg/scbl/index.html#accuracy_assessment_info

Fees: None

Metadata_Reference_Information:

Metadata_Date: 20011022

Metadata_Review_Date: 20060906

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: USGS-NPS Vegetation Mapping Program Coordinator

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Metadata_Standard_Name: FGDC-STD-001.1-1999 Content Standard for Digital Geospatial Metadata, 1998 Part 1:
Biological Data Profile, 1999

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Extensions:

Online_Linkage: <http://biology.usgs.gov/fgdc.bio/bionwext.txt>

Profile_Name: Biological Data Profile FGDC-STD-001.1-1999